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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/787,510	02/26/2004	Robert F. Steimle	SC13130TP	6478
23125 7	7590 05/03/2005		EXAMINER	
FREESCALE	E SEMICONDUCTO	KESHAVAN, BELUR V		
LAW DEPAR	TMENT			•
7700 WEST P.	ARMER LANE MD:TX	K32/PL02	ART UNIT	PAPER NUMBER
AUSTIN, TX	78729		2823	_

DATE MAILED: 05/03/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

			<u> </u>	<u> </u>			
		Application No.	Applicant(s)				
Office Action Summary		10/787,510	STEIMLE ET AL.				
		Examiner	Art Unit				
		Belur V. Keshavan	2823	<u></u>			
Period f	The MAILING DATE of this communication a or Reply	appears on the cover sheet w	th the correspondence address				
THE - Extra afte - If th - If N - Fail	HORTENED STATUTORY PERIOD FOR REF MAILING DATE OF THIS COMMUNICATION ensions of time may be available under the provisions of 37 CFR or SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a ro O period for reply is specified above, the maximum statutory period ure to reply within the set or extended period for reply will, by state or reply received by the Office later than three months after the manned patent term adjustment. See 37 CFR 1.704(b).	N. 1.136(a). In no event, however, may a eply within the statutory minimum of thir od will apply and will expire SIX (6) MON lute, cause the application to become Al	eply be timely filed ty (30) days will be considered timely. ITHS from the mailing date of this communication BANDONED (35 U.S.C. § 133).	on.			
Status							
1)⊠	Responsive to communication(s) filed on 26	February 2004.					
· · · · · · · · · · · · · · · · · · ·	•	his action is non-final.					
3)□	Since this application is in condition for allow	vance except for formal mat	ers, prosecution as to the merits i	s			
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposi	tion of Claims	•					
5) 6) 7)	Claim(s) <u>1-29</u> is/are pending in the application 4a) Of the above claim(s) is/are withd Claim(s) <u>15-29</u> is/are allowed. Claim(s) <u>1</u> is/are rejected. Claim(s) <u>2-14</u> is/are objected to. Claim(s) are subject to restriction and	rawn from consideration.					
Applica	tion Papers						
10)□	The specification is objected to by the Exami The drawing(s) filed on is/are: a) a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction of the control of the	ccepted or b) objected to he drawing(s) be held in abeya ection is required if the drawing	nce. See 37 CFR 1.85(a). (s) is objected to. See 37 CFR 1.121((d).			
Priority	under 35 U.S.C. § 119			•			
a	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority docume application from the International Bure See the attached detailed Office action for a li	ents have been received. ents have been received in A riority documents have beer eau (PCT Rule 17.2(a)).	application No received in this National Stage				
Attachme	nt(s) ce of References Cited (PTO-892)	4) 🗍 Interview	Summary (PTO-413)				
2) Noti	ice of Draftsperson's Patent Drawing Review (PTO-948) rmation Disclosure Statement(s) (PTO-1449 or PTO/SB/0 er No(s)/Mail Date <u>02/26/2004</u> .	Paper No(s)/Mail Date nformal Patent Application (PTO-152)				

DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary.

Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claim 1 is rejected under 35 U.S.C. 103(a) as being unpatentable over Jones Jr. et al. (US Pub. No.: 20030132500 A1).

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Regarding claim 1, Jones discloses, in figures 1-6 and in paragraphs [0012] – [0014], a method comprising: providing substrate (16); forming sacrificial layer (18) overlying a first portion of the semiconductor substrate; forming an oxide layer (22) overlying second portion of the semiconductor substrate; forming a plurality of nanoclusters (24) overlying the sacrificial layer and the oxide layer. Jones does not disclose removing all the plurality of nanoclusters overlying the sacrificial layer and removing the sacrificial layer completely. However Jones discloses removing the plurality of nanoclusters overlying the sacrificial layer partially and removing the sacrificial layer partially. It would have been obvious to one of ordinary skill in the art at the time the invention was made to use the teachings of Jones in removing at least the plurality of nanoclusters overlying the sacrificial layer and removing the sacrificial layer.

Allowable Subject Matter

Claims 2-14 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claims 15-29 are allowed.

The following is a statement of reasons for the indication of allowable subject matter:

The invention is related to a processing of semiconductor integrated circuit devices with nanoclusters and without nanoclusters. The primary reason for the indication of the allowability of claims 2-14 and 15-29 is the inclusion therein, in combination as currently claimed, of the limitation of the method of integrating nanoclusters devices and non-nanoclusters devices on the same integrated circuit.

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Belur V. Keshavan whose telephone number is 571-272-1894. The examiner can normally be reached on 8-4:30 Monday to Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Olik Chaudhuri can be reached on 571-272-1855. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Art Unit: 2823

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Bvk. 1314 April 20, 2005.

> OLIK CHAUDHURI SUPERVISORY PATENT EXAMINER TECHNOLOGY OF THE 2000